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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/826,831	04/06/2001	Hiroyoshi Kamoda	0965-0348P	5091	
2292 7:	590 02/28/2003				
BIRCH STEWART KOLASCH & BIRCH			EXAMINER		
PO BOX 747 FALLS CHURCH, VA 22040-0747			CULLER, JILL E		
			ART UNIT	PAPER NUMBER	
			2854		

DATE MAILED: 02/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

			No.	Applicant(s)			
Office Action Summary		Application	NO.	KAMODA, HIROYOSHI			
		09/826,831					
		Examiner		Art Unit			
		Jill E. Culler		2854			
Period fo	- The MAILING DATE of this communic r Reply						
A SHO THE N - Exter after - If the - If NO - Failur	DRTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuperiod for reply specified above is less than thirty (30) period for reply is specified above, the maximum stative to reply within the set or extended period for reply weeply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	FATION. f 37 CFR 1.136(a). In no event nication. days, a reply within the statuto utory period will apply and will a	, however, may a reply be ting by minimum of thirty (30) day expire SIX (6) MONTHS from thing to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communical ED (35 U.S.C.§ 133).	ion.		
1)⊠	Responsive to communication(s) file						
2a)		b)⊠ This action is n			•_		
3)□ Disposit	Since this application is in condition closed in accordance with the praction of Claims	for allowance except ce under <i>Ex parte Qu</i>	for formal matters, p <i>äyle</i> , 1935 C.D. 11,	prosecution as to the ment 453 O.G. 213.	S IS		
-	Claim(s) <u>1-5</u> is/are pending in the ap	plication.					
الطارا	4a) Of the above claim(s) is/ar	e withdrawn from con	sideration.				
5)[7	Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7)							
	Claim(s) are subject to restric	tion and/or election re	quirement.				
	ion Papers						
9)🖂	The specification is objected to by the	e Examiner.	- 3	U. a. Flancisco			
10)⊠	The drawing(s) filed on <u>06 April 2001</u>	is/are: a)☐ accepted o	or b)⊠ objected to by	the Examiner.			
	Applicant may not request that any obj	ection to the drawing(s)	be held in abeyance.	See 3/ CFK 1.85(a).			
11)	The proposed drawing correction filed	d on is: a)	proved b) L disapp	roved by the Examiner.			
	If approved, corrected drawings are re-		ice action.				
12)	The oath or declaration is objected to	by the Examiner.					
Pri rity	under 35 U.S.C. §§ 119 and 120			(-) (d) on (5)			
13)⊠	Acknowledgment is made of a claim	for foreign priority un	der 35 U.S.C. § 119	(a)-(d) or (f).			
а)⊠ All b)□ Some * c)□ None of:						
	1.⊠ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies application from the Internation See the attached detailed Office actions.	national Bureau (PC)	Rule 17.2(a)).		;		
	Acknowledgment is made of a claim	for domestic priority u	nder 35 U.S.C. § 11	9(e) (to a provisional appl	cation).		
14)∐	a) The translation of the foreign la	nguage provisional ac	oplication has been r	eceived.			
15)	Acknowledgment is made of a claim	for domestic priority u	nder 35 U.S.C. §§ 1	20 and/or 121.			
Attachme			A) Interview Summ	nary (PTO-413) Paper No(s)			
2) 🗆 No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (ormation Disclosure Statement(s) (PTO-1449) l	PTO-948) Paper No(s) <u>4</u> .	Interview Summ Notice of Inform Other:	nal Patent Application (PTO-152)		

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DETAILED ACTION

Drawings

1. The drawings are objected to because in Fig 2, reference numeral 8, a register, and reference numeral 14, a feeder board, appear to be indicating the same part of the drawing. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objections to the drawings will not be held in abeyance.

Information Disclosure Statement

2. The information disclosure statement filed 09/19/01 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

It is noted that the document number on the form does not match that on the supplied abstract. In order to prevent confusion, the document related to the supplied abstract has been considered and noted in the examiner's Notice of References Cited.

Specification

3. The disclosure is objected to because of the following informalities: On page 7, line 23, with reference to Fig. 2 and later description in the specification, it appears that

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the word "cylinder" should be the word "chain" instead. Appropriate correction is required.

Claim Objections

4. Claims 4-5 are objected to because of the following informalities: In claim 4, if applicant intends to positively claim "first drying means" and "second drying means" the word "a" should be inserted before "first" on line 2 and before "second" on line 6 in order to clarify the claim language. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 1-5 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In claim 1, it is not clear what structure is intended by the "delivery unit" recited in line 9. From the drawings it would appear that the delivery unit, 16, includes some or all of the structure of the transport means, although this is not indicated by the specification. It should be made clear how these two parts of the structure are related.

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7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 1-5 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, the recitation of "said quality inspection apparatus comprises" on line 19 is redundant because the structure of the preamble indicates that the entire claim is drawn to the quality inspection apparatus. It appears that the structure in lines 2-18 may be drawn to the double-sided printing machine instead of the quality inspection apparatus, in which case the claim should be rewritten to more clearly indicate exactly what is being claimed.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP01316268 to Funada in view of U.S. Patent No. 4,448,121 to Uno et al.

Funada shows a quality inspection apparatus for a double-sided printing machine comprising: a printing unit, 1, for printing opposite faces of a sheet-like material; ink

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supply means for supplying ink to said printing unit, 35, 36, said ink supply means being supported to be brought into contact with and separated from said printing unit, see Fig. 2; and transport means, 22, for transporting said sheet-like material from said printing unit to a delivery unit while holding said sheet-like material,

Funada does not teach that said transport means includes a first delivery chain passing through a lower side of the ink supply means, a plurality of transport cylinders for transporting the sheet-like material from the first delivery chain and a second delivery chain for transporting the sheet-like material from the plurality of transport cylinders; said plurality of transport cylinders arranged in zigzag fashion along a vertical direction and including at least first and second transport cylinders; and said quality inspection apparatus comprises: first detection means for detecting a status of printing on one face of the sheet-like material when the sheet-like material is transported by the first transport cylinder; and second detection means for detecting a status of printing on the other face of the sheet-like material when the sheet-like material is transported by the second transport cylinder.

Uno et al. teaches a transport means including a first delivery chain, 20, a plurality of transport cylinders 12, 13, for transporting the sheet-like material from the first delivery chain and a second delivery chain, 10, for transporting the sheet-like material from the plurality of transport cylinders, said plurality of transport cylinders arranged in a zigzag fashion along a vertical direction and including at least first and second transport cylinders and a quality inspection apparatus comprising first detection means, 15, for detecting a status of printing on one face of the sheet-like material when

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the sheet-like material is transported by the first transport cylinder, 12, and second detection means, 16, for detecting a status of printing on the other face of the sheet-like material when the sheet-like material is transported by the second transport cylinder, 13.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the printing unit of Funada using the transport means and quality inspection apparatus of Uno et al. in order to be able to inspect the quality of the printed sheets while transporting them from the printing unit to the delivery unit.

11. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Funada in view of Uno et al. as applied to claims 1-2 above, and further in view of U.S. Patent No. 6,192,140 to Reinhard et al.

Funada and Uno et al. teach all that is claimed, as in the above rejection of claims 1-2 except that the first and second transport cylinders are suction cylinders.

Reinhard et al. teaches the use of suction cylinders to transport sheets in a printing machine. See column 2, lines 37-39 and 47-50.

It would have been obvious to one having ordinary skill in the art at the time of the invention to further modify the invention of Funada using the suction cylinders of Reinhard et al. in order to better control the transport of the sheets.

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12. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Funada in view of Uno et al. as applied to claims 1-2 above, and further in view of U.S. Patent No. 4,794,856 to Giori.

Funada and Uno et al. teach all that is claimed, as in the above rejection of claims 1-2 except that a first drying means is provided on the upstream side, with respect to the transport direction, of a detection position at which said first detection means detects the sheet-like material held by the first transport cylinder and a second drying means is provided on the upstream side, with respect to the transport direction, of a detection position at which the second detection means detects the sheet-like material held by the second transport cylinder, wherein the first drying means is disposed to face the first transport cylinder and the second drying means is disposed to face the second transport cylinder.

Giori teaches a drying means disposed to face a transport cylinder.

It would have been obvious to one having ordinary skill in the art at the time of the invention to further modify the invention of Funada using the drying means of Giori on each transport cylinder in order to be able to dry the printed material before it is inspected, minimizing the chance of smudging during or after inspection.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the 14. examiner should be directed to Jill E. Culler whose telephone number is (703) 308-1413. The examiner can normally be reached on M-Th 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on (703) 305-6619. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

iec

February 24, 2003

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